

AK

## ===== EPODOC =====

TI - Injection mould to make items with voids - which injects e.g. compressed air into shot in cavity by static needle contg. pin adjusted axially to regulate bore cavity

AB - Equipment injection moulds plastic articles containing voids in a mould fed with melt from a nozzle, which mould is also fed with pressurised e.g. air, other gas or liquid through a hollow needle at another position on the mould. This needle contains an axially moving core pin by means of which the mould cavity end of the needle can be opened/closed or varied in the cross-section of its flow bore.

- ADVANTAGE - The design ensures that the end of the needle will not become clogged during the latter part of the injection cycle.

PN - DE3936289 A 19910502

AP - DE19893936289 19891101

PR - DE19893936289 19891101

PA - BATTENFELD GMBH (DE)

IN - -

EC - B29C45/17B4

CT - DE2461580 B2 [ ]; DE2501314 A1 [ ]; DE2106546 A [ ];

US4740150 A [ ]; US4474717 A [ ]; US4101617 A [ ]

DT - \*

## ===== WPI =====

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USAB - US5466141 A device is provided for injection moulding plastics articles having hollow spaces comprising a moulding tool with a plastics receiving cavity with an opening for introducing low viscosity plastics melt into it; a mechanism for introdng. a press. medium into the cavity comprising a hollow needle with a free end washed with the plastics melt, and a needle core mounted in the needle defining a variable size outlet aperture at the free end of the needle for the introd. of press. medium and a mechanism for displacing the core and needle relative to each other for varying the aperture size; and a body with a first length extending from the needle end with an inner dia. correspdg. to the core outer dia. allowing sliding contact; the body having a second length remote from the needle free end with a dia. allowing for a radial gp between the two with the needle having a longitudinal recess for conduction of press. medium to the variable sized opening.

- ADV - Clogging is prevented. (Dwg.0/3)

- US5895667 Equipment injection moulds plastic articles containing voids in a mould fed with melt from a nozzle, which mould is also fed with pressurised e.g. air, other gas or liquid through a hollow needle at another position on the mould. This needle contains an axially moving core pin by means of which the mould cavity end of the needle can be opened/closed or varied in the cross-section of its flow bore.

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DEAB - DE3936289 Equipment injection moulds plastic articles containing voids in a mould fed with melt from a nozzle, which mould is also fed with pressurised e.g. air, other gas or liquid through a hollow needle at another position on the mould. This needle contains an axially moving core pin by means of which the mould cavity end of the needle can be opened/closed or varied in the cross-section of its flow bore.

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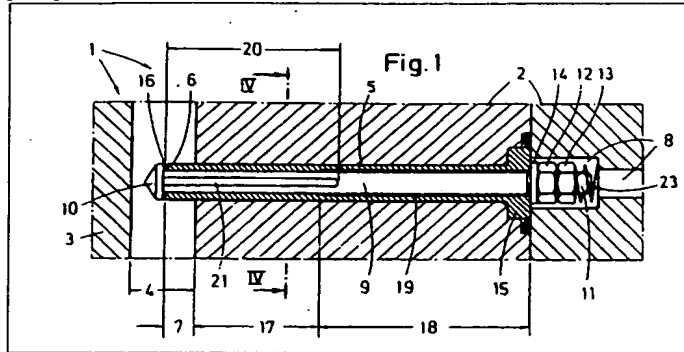
PN - DE3936289 A 19910502 DW199119 000pp

- JP3164222 A 19910716 DW199134 000pp

- AT9001955 A 19920615 DW199228 B29C45/17 000pp

- AT395555B B 19921215 DW199303 B29C45/17 000pp

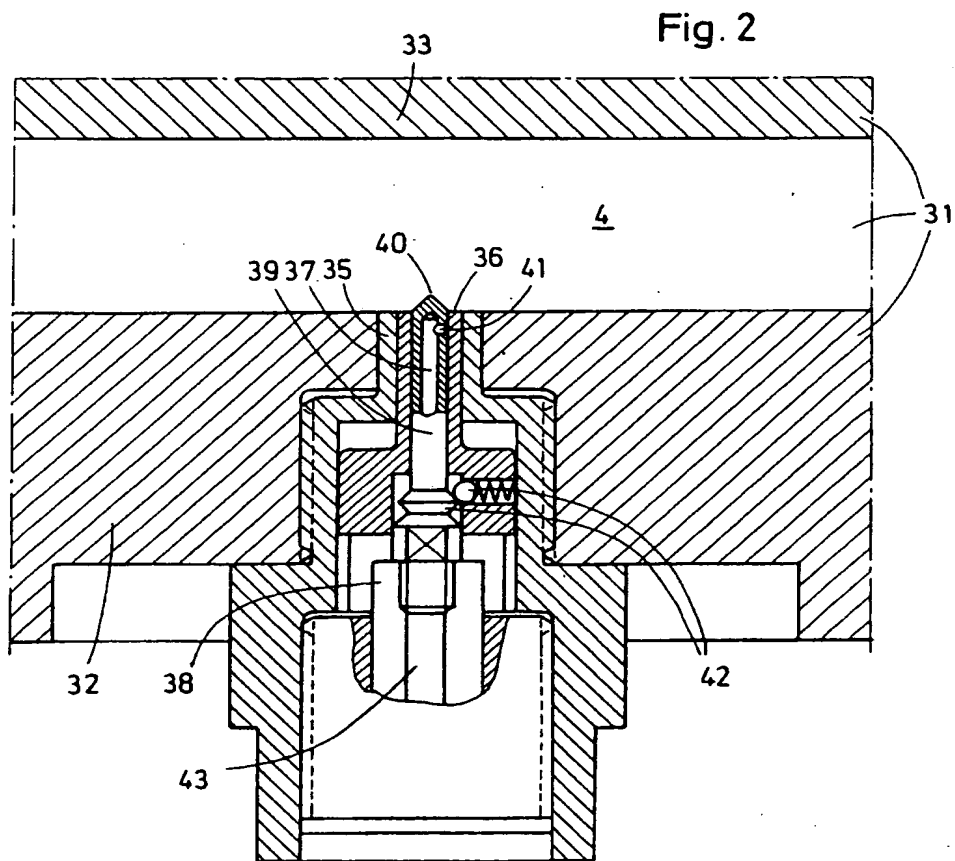
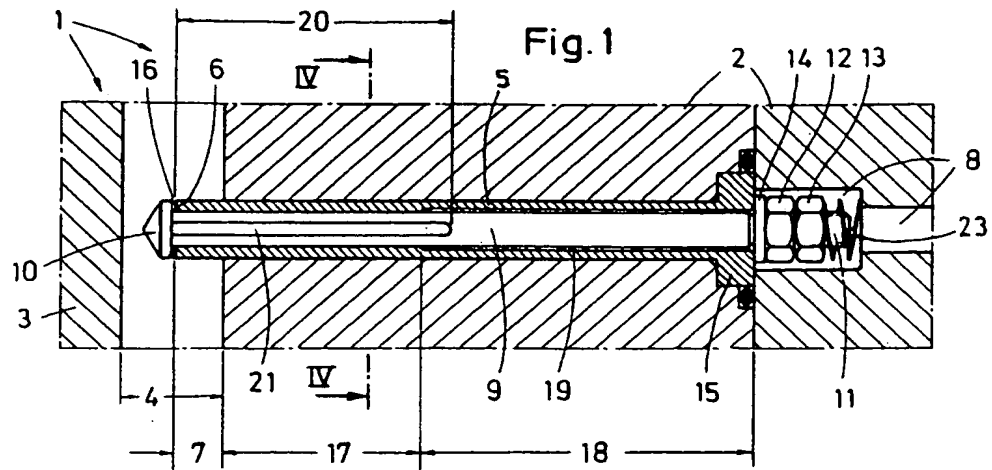
- IT1244801 B 19940905 DW199508 B29C0/00 000pp  
 - JP7029338B B2 19950405 DW199518 B29C45/26 007pp  
 - US5466141 A 19951114 DW199551 B29C45/20 008pp  
 - DE3936289 C2 19960125 DW199608 B29C45/00 007pp  
 - US5895667 A 19990420 DW199923 B29C45/16 000pp  
 PR - DE19893936289 19891101  
 PA - (BATW ) BATTENFELD GMBH  
 IN - ECKARDT H; EHRTT J; RENGIER M  
 MC - A11-B12C  
 DC - A32  
 IC - B29C0/00 ;B29C45/00 ;B29C45/16 ;B29C45/17 ;B29C45/20 ;B29C45/26 ;B29C49/  
 06 ;B29L22/00  
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<First Page Image>

ZEICHNUNGEN SEITE 1

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 Offenlegungstag: 2. Mai 1991



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<Drawing, page 1/2>

**ZEICHNUNGEN SEITE 2**

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**Int. Cl.<sup>8</sup>:**  
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